US-PAT-NO: 6260772

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TITLE: Dispensing and rinsing gun

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Brief Summary Text - BSTX (10):

A preferred embodiment dispensing gun for dispensing water received from a

water supply and for dispensing a product diluted in the dispensing gun with

water received from the water supply includes a handle, a water inlet, a water

outlet, and a hose receiving member. A hose member includes a first channel

and a second channel. The hose receiving member is operatively connected to a

first channel of a hose member, and the first channel is in fluid communication

with the water inlet. An <u>aspirator</u> is operatively connected to the second

channel of the hose member and is in fluid communication with the water outlet.

The <u>aspirator</u> includes an outlet. A water supply supplies the gun with water

via the first channel of the hose member, and a product supply supplies the gun

with product via the second channel of the hose member, wherein the aspirator

creates a use solution of product diluted with water for the water outlet. The

use solution exits the outlet of the <u>aspirator</u>. A nozzle is operatively

connected to the water outlet to dispense water from the water outlet. A first

valve is in fluid communication with the water outlet and the nozzle, and a

second valve is in fluid communication with the water outlet and the aspirator.

The first valve controls the flow of water via the first channel and the second

valve controls the flow of water via the first channel

through the  $\underline{\text{aspirator}}$ .

The first valve allows water to flow from said water outlet through the nozzle,

and the second valve allows water to flow from the water outlet into the

<u>aspirator</u> and the use solution created therein to flow through the outlet of the <u>aspirator</u>.

Brief Summary Text - BSTX (11):

In another preferred embodiment, an apparatus for dispensing liquid diluent

and a liquid concentrate diluted with diluent includes a dispenser having an

inlet and an outlet. A hose member includes a first channel and a second

channel. The first channel interconnects a liquid diluent source to the inlet,

wherein liquid diluent flows from the liquid diluent source into the inlet and

out of the outlet. An  $\underbrace{\text{aspirator}}$  is operatively connected to the outlet via the

second channel. The <u>aspirator</u> includes a liquid diluent inlet a liquid

concentrate inlet, and a dilute solution outlet. A control device operatively

connected to the <u>aspirator</u> controls the flow of liquid diluent from a source of

liquid diluent to the liquid diluent inlet. A nozzle is operatively connected

to the outlet for dispensing liquid diluent from the outlet. A first valve is

in fluid communication with the outlet and the nozzle and controls the flow of

liquid diluent out of the nozzle. A second valve is in fluid communication

with the outlet and the  $\underline{{\tt aspirator}}$  and controls the flow of dilute solution out

of the dilute solution outlet.

Brief Summary Text - BSTX (12):

In another preferred embodiment dispensing gun for dispensing water received

from a water supply and for dispensing a product diluted in the dispensing gun

with water received from the water supply, the dispensing

qun includes a

handle, a water inlet, a water outlet, and a hose receiving member operatively

connected to a first channel of a hose member. The first channel of the hose

member is in fluid communication with the water inlet. An aspirator is in

fluid communication with the water outlet, and the aspirator includes an

outlet. A water supply supplies the dispensing gun with water via the first

channel of the hose member. A product supply is in fluid communication with

the <u>aspirator</u>, <u>wherein the aspirator</u> creates a use solution of product diluted

with water from the water outlet, and the use solution exits the outlet of the

aspirator. A first nozzle is operatively connected to the
water outlet to

dispense water from the water outlet; and a first valve is in fluid

communication with the water outlet and the first nozzle, and a second valve is

in fluid communication with the water outlet and the aspirator. The first

valve controls the flow of water via the first channel and the second valve

controls the flow of water via the first channel through the aspirator. The

first valve allows water to flow from the water outlet through the first nozzle

and the second valve allows water to flow from the water outlet into the

<u>aspirator</u> and the use solution created therein to flow through the outlet of the <u>aspirator</u>.

Detailed Description Text - DETX (10):

Aspirators 148a and 148b commonly known in the art are inserted into first

bore 126 and third bore 128, respectively, and a pistol nozzle 113 including a

first segment 107 and a second segment 114 commonly known in the art is

inserted into second bore 127. Aspirators 148a and 148b include a first end

150a and 150b having bores 151a and 151b that are in fluid

communication with

first tube 123 and third tube 125, respectively. Inlet port 149a is connected

to first channel and inlet port 149b is connected to the third channel of the

hose member to provide product to aspirators 148a and 148b. At the opposite

end of aspirators 148a and 148b are rings 152a and 152b and bores 153a and

153b. Bore 153a is in fluid communication with third tube 171 and bore 153b is

in fluid communication with first tube 169. Therefore, aspirator 148a is in

fluid communication with first cavity 172 and <u>aspirator</u> 148b is in fluid communication with third cavity 174.

Detailed Description Text - DETX (18):

Railing 211 is operatively connected to base 201 proximate the center of

base 201 and extends upward to provide support for reel support member 207.

Hose reel 204 is operatively connected to railing 211 via reel support member

207 proximate the center of base 201 with nuts and bolts. Hose reel 204 and

reel support member 207 are of the type generally known in the art. Hose 209

is operatively connected to hose reel 204, and an extension hose 209a connects

hose 209 to hose fitting K. The tri-extruded supply hose 210 is then connected

to the other end of the hose fitting K. The **connection** of these hoses is well

known in the art. The weight of product containers 205 and 206 are

counterweighted by the weight of hose reel 204 to balance the cart 200 evenly.

Railing 211 also provides a surface on which a triangular shaped gun support

208 may be attached so that gun 100 may be stored on cart 200 when it is not in

use. To store the gun 100, the dispensing nozzle portion of gun 100 is

inserted into the center of gun support 208. To utilize the gun 100 attached

to cart 200, all that is required is the connection of the

water hose 209 to a standard water  $\underline{\text{faucet}}$  and the attachment of the product to the product containers. The dispensing and rinsing gun 100 is turned off when the selector

156 is positioned between the valves, as discussed above.

### Claims Text - CLTX (4):

c. an <u>aspirator</u> operatively connected to said second channel of said hose member and in fluid communication with said water outlet, said <u>aspirator</u> having an outlet;

### Claims Text - CLTX (5):

d. a product supply supplying said gun with product via said second channel of said hose member, wherein said <u>aspirator</u> creates a use solution of product diluted with water from said water outlet, said use solution exiting the outlet of the <u>aspirator</u>;

#### Claims Text - CLTX (7):

f. a first valve in fluid communication with said water outlet and said first nozzle and a second valve in fluid communication with said water outlet and said <u>aspirator</u>, said first valve controlling flow of water via said first channel and said second valve controlling flow of water via said first channel through said aspirator, wherein said first valve allows water to flow from said water outlet through said first nozzle, and wherein said second valve allows water to flow from said water outlet into said aspirator and said use solution created therein to flow through said outlet of said aspirator.

### Claims Text - CLTX (13):

7. The dispensing gun of claim 1, further comprising a

third channel of said hose member, a second aspirator operatively connected to said third channel of said hose member and in fluid communication with said water outlet, said second aspirator having an outlet, a second product supply supplying said dispensing qun with a second product via said third channel of said hose member wherein said second aspirator creates a use solution of second product diluted with water from said water outlet, a third valve interconnecting said water outlet and said second aspirator for controlling water via said first channel and product via said third channel, said use solution is dispensed from said outlet of said second aspirator, wherein said third valve allows water to flow from said water outlet into said second aspirator and said use solution created

# Claims Text - CLTX (17):

aspirator.

c. an <u>aspirator</u> operatively connected to said outlet via said second channel, said <u>aspirator</u> having a liquid diluent inlet, a liquid concentrate inlet, and a dilute solution outlet;

therein to flow through said outlet of said second

## Claims Text - CLTX (18):

d. a control device operatively connected to the aspirator for controlling
flow of liquid diluent from a source of liquid diluent to the liquid diluent inlet;

#### Claims Text - CLTX (21):

g. a second valve in fluid communication with said outlet and said <u>aspirator</u> for controlling flow of dilute solution through the dilute solution outlet.

Claims Text - CLTX (26):

13. The apparatus of claim 8, further comprising a third channel of said

hose member, a second  $\underline{aspirator}$  operatively connected to said third channel of

said hose member and in fluid communication with said outlet, said second

aspirator having a dilute solution outlet, a second liquid
concentrate

connected to said third channel of said hose member wherein said second

aspirator creates a use solution of second liquid
concentrate diluted with

liquid diluent from said outlet, a third valve in fluid communication with said

outlet and said second  $\underline{aspirator}$  for controlling the flow of liquid diluent via

said first channel and liquid concentrate via said third channel, wherein said

third valve allows liquid diluent to flow from said outlet into said second

<u>aspirator</u> and said dilute solution created therein to flow through said dilute solution outlet.

Claims Text - CLTX (30):

c. an  $\underline{\text{aspirator}}$  in fluid communication with said water outlet, said

aspirator having an outlet,

Claims Text - CLTX (31):

d. a product supply in fluid communication with said aspirator, wherein said

aspirator creates a use solution of product diluted with
water from said water
outlet, said use solution exiting the outlet of the
aspirator;

Claims Text - CLTX (33):

f. a first valve in fluid communication with said water outlet and said first nozzle and a second valve in fluid communication with said water outlet

and said <u>aspirator</u>, said first valve controlling flow of water via said first

channel and said second valve controlling flow of water via said first channel

through said **aspirator**, wherein said first valve allows water to flow from said

water outlet through said first nozzle, and wherein said second valve allows

water to flow from said water outlet into said  $\underline{aspirator}$  and said use solution

created therein to flow through said outlet of said aspirator.

Claims Text - CLTX (34):

15. The dispensing gun of claim 14, wherein said hose member has a second channel to place said product supply in fluid communication with said aspirator.

Claims Text - CLTX (35):

16. The dispensing gun of claim 14, further comprising a third valve and a

second product supply in fluid communication with a second aspirator, said

second <u>aspirator</u> being in fluid communication with said water outlet and having

an outlet, wherein said second <u>aspirator</u> creates a use solution of said second

product supply diluted with water from said water outlet, said third valve

interconnecting said water outlet and said second  ${\color{red} \underline{aspirator}}$  for controlling

water via said first channel and second product, said use solution is dispensed

from said outlet of said second <u>aspirator</u>, wherein said third valve allows

water to flow from said water outlet into said second aspirator and said use

solution created therein to flow through said outlet of said second aspirator.

Current US Original Classification - CCOR (1): 239/310